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The Files

30 December 1960

[redacted]

Trip Report - [redacted]

Medium Range Communications Study

1. On 19 December 1960 a visit was made to [redacted] to monitor progress on the subject task. The objective of this task is to undertake a state of the art study to determine the media and techniques which will best support communications over a medium range path, 2-300 miles. Those present at this meeting were:

[redacted]

2. [redacted] reported that they had completed their investigations into high frequency and medium frequency sky wave, high frequency ground back scatter, and tropospheric scatter communications techniques. Of these systems, tropospheric appears to be more desirable, however, this will depend on antenna size and terrain profiles available for field sites. In view of this, [redacted] is now concentrating their efforts towards antenna configurations for troposcatter systems and also is trying to obtain information on average terrain profiles for indication of troposcatter clearance angles and high frequency back scatter dispersion that can be expected. This program is scheduled for completion 15 January and the results of the study to date indicate that the medium range communications problems cannot be solved with one system. It appears that special requirements can be met by designing special systems to meet these requirements.

[redacted]

Distribution:
R+D Subject File
R+D Lab
Monthly (2)
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